



A.D. 1805 N^o 2839.

S P E C I F I C A T I O N

OF

BARRODALL ROBERT DODD.

CONSTRUCTION OF FIRE-PLACES, STOVES,
AND GRATES.

L O N D O N :

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DODD'S SPECIFICATION.

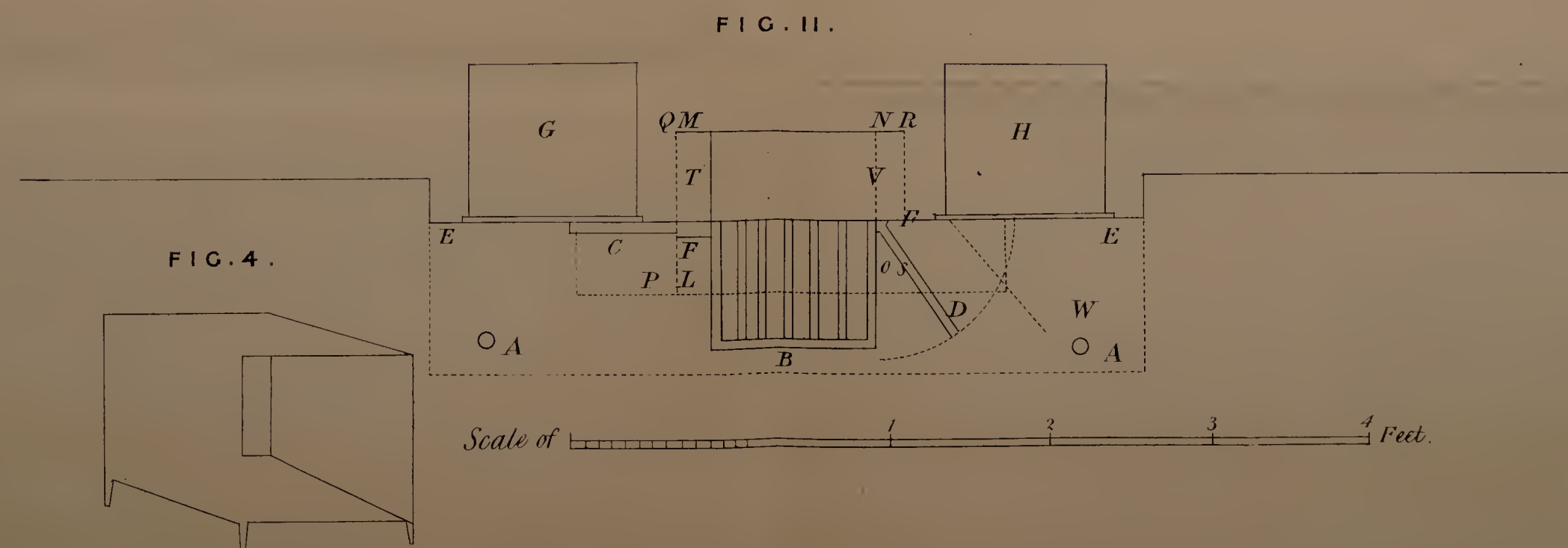
TO ALL TO WHOM THESE PRESENTS SHALL COME, I, BARRODALL ROBERT DODD, of Change Alley, in the City of London, Civil Engineer, do send greeting.

5 WHEREAS His most Excellent Majesty King George the Third, by His Letters Patent under the Great Seal of the United Kingdom of Great Britain and Ireland, bearing date at Westminster, the Eighteenth day of April, in the forty-fifth year of his reign, did give and grant unto me, the said Barrodall Robert Dodd, my executors, administrators, and assigns, His special licence, full power, sole privilege and authority, that I, the said Barrodall Robert Dodd
10 my executors, administrators, and assigns, during the term of years therein expressed, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick upon Tweed, my new invented "VARIOUS IMPROVEMENTS IN THE CONSTRUCTION OF FIRE-PLACES, AND ADAPTING STOVES AND GRATES THERETO," in which said Letters Patent there is contained
15 a proviso, obliging me, the said Barrodall Robert Dodd, under my hand and seal, to cause a particular description of the nature of my said Invention, and in what manner the same is to be performed, to be inrolled in His Majesty's High Court of Chancery within four calendar months next and immediately after the date of the said in part recited Letters Patent, as in and by the same,
20 relation being thereunto had, may more fully and at large appear.

NOW KNOW YE, that in compliance with the said proviso, I, the Barrodall Robert Dodd, do hereby declare that my Invention is fully described and ascertained in manner and form following, reference being had to the Drawings in the margin of these Presents, that is to say:—

Dodd's Improvements in the Construction of Fire-places, &c.

Figure 1 is an elevation or front view of the fire-place; Figure 2, an horizontal section of the same immediately below the breast of the chimney; Figure 3, a side view. The same letters refer to the same parts in each Figure. A, columns supporting the chimney; B, the grate; C and D, reflectors of metal or other suitable materials. By the plan, Figure 2, the manner of 5 constructing the fire-place, the flues, and the situation of the grate is clearly shewn. G and H are flues of fire-places supposed to be in apartments below. I and K, plates of iron, of which the sides of the flues in the room may be form'd, from the hearth to the breast of the chimney, to save an unnecessary proportion of brickwork in the room. L, M, N, O, the throat or opening 10 of the chimney, which may be contracted at pleasure by plates of iron or registers, in the usual way, but where a larger aperture may be required it can be extended, as at P, Q, R, S, and a part thereof at each side, as at F, V, may be made to lift up at pleasure, in the manner of a register. C represents one of the reflectors pushed back close against the wall, and D, the other half 15 open. In the Drawing the reflectors are placed close to the grate, but they should be moveable or made to slide horizontally in grooves or on rollers or otherwise from E to F, which will permit them to open at different angles and at various distances from the grate, as shewn at W; they may be fixed on hinges or otherwise vertically to the back of the fire-place, or they may 20 be united to the sides of the stove or grate. The reflectors may be made either of one entire piece or separated in the center or elsewhere, as may be judged to be most convenient, and they might be so constructed as to slide into a recess formed in the wall, or contrived so as to slide out or turn completely round, by which either side may be presented to the fire, one of which 25 only might be polished and the other japanned; in some cases it might be useful to make the reflectors without either affixing them to the fire-place or the stove in the manner of a fire screen, to stand upon legs or otherwise, but there are a variety of modes in which the reflectors might be applied. The dotted line E A, A E, denotes the space that the brickwork above the 30 columns forming the chimney projects over. Brackets or trusses might be applied to support the chimney, or brickwork instead of columns, if preferred. The principal intention and advantages of these reflectors are to augment the warmth of the room, with increasing the consumption of the fuel; they may be used on the first kindling of a fire by being drawn forward at right angles 35 close to the stove or grate on each side, in which situation they will assist in producing a strong draught, and cause the speedy inflammation of the fuel in the grate; when this is effected they may be pushed about half-way back, in order that the radiant heat from the sides of the fire may impinge against



The enrolled drawing is colored.

Dodd's Improvements in the Construction of Fire-places, &c.

them, and thence be reflected into the room, but when the fire has burnt clear or no smoke is apprehended, the reflector should be thrown quite back, in which case the direct calorific rays from both sides of the fire will pass into the room in the same manner as they now do from the front only, and thereby
 5 raise the temperature of the apartment without adding to the consumption of fuel, and at the same time allow a more extensive view and benefit of the fire than has been obtained by any other mode. Figure 4 is an extinguisher or metal case, so formed as to completely inclose the stove or grate with the fire, which will, when put on, exclude the air, which is so essentially necessary to
 10 combustion, and thereby speedily smother or put out the fire without removing the heated cinders, creating any dust or trouble whatever, and it will also save the coals in the grate or stove at the time of the extinguishing the fire.

In witness whereof, I, the said Barrodal Robert Dodd, have here-
 unto set my hand and seal, this Fifteenth day of August, in the
 15 year of our Lord One thousand eight hundred and five.

BARRODALL ROBERT DODD. (L.S.)

AND BE IT REMEMBERED, that on the Fifteenth day of August, in the forty-fifth year of the reign of His Majesty King George the Third, the said Borrodall Robert Dodd came before our said Lord the King in His Chancery,
 20 and acknowledged the instrument aforesaid, and all and everything therein contained and specified in form above written; and also the instrument aforesaid was stamped according to the tenor of the Statute made in the forty-fourth year of His said Majesty's reign.

Inrolled the Seventeenth day of August, in the year of our Lord One
 25 thousand eight hundred and five.

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